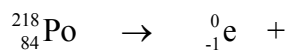
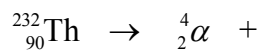
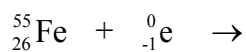


Marks
3

- Balance the following nuclear reactions by identifying the missing nuclide.

**2**

- Over 50 years, the activity of a sample of strontium-90 decreases from 1000 Bq to 303 Bq. Calculate the half-life of strontium-90 (in years) to the nearest year.

Answer:

3

- Identify three desirable properties of an unstable isotope to be used in medical imaging.