

$$A_{\rm t} = (1 \times 10^6) \times (3.19 \times 10^{12}) \times (0.11 / 100) \exp(-100 \times \ln 2 / 30.23)$$
 Bq
= 3.5×10^{14} Bq

The total activity is therefore $(2.3 \times 10^{14} + 3.5 \times 10^{14})$ Bq = 6×10^{14} Bq

Answer: 6×10^{14} Bq