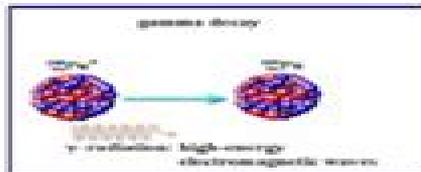
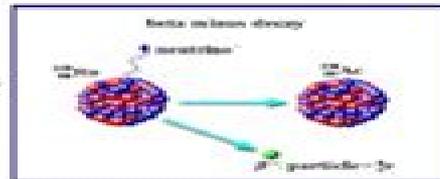
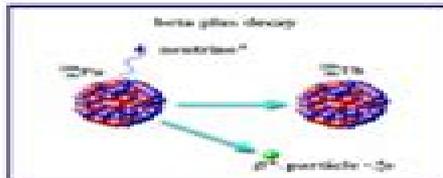
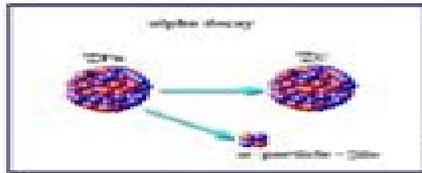


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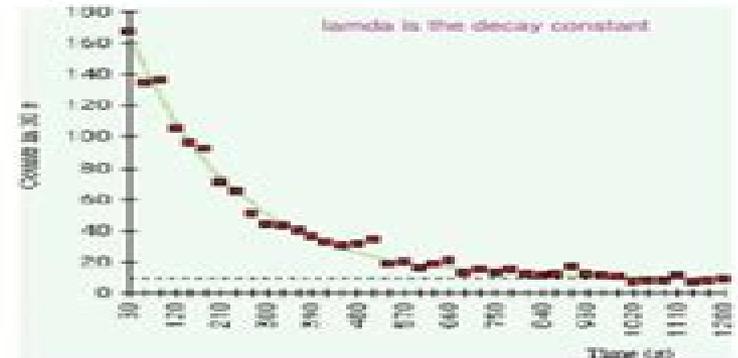
## SUMMARY



equation for half life

$$N = N_0 e^{-\lambda t}$$

$$t_{1/2} = \frac{\ln(2)}{\lambda}$$



1

# Radiation Physics, Lecture 2

## SAMPLE QUESTION

Radio-isotopes Strontium-90 ( $T_{1/2} = 28$  years) and Iodine-131 ( $T_{1/2} = 8$  days) are both dangerous nuclear fission products, being bone and thyroid seeking respectively.

(a) How long after a nuclear explosion will it take for the  $^{131}\text{I}$  activity to fall by a factor of 1024?

(b) By what fraction will Sr-90 activity be reduced over 64 years?

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**Joint IAEA/WHO Expert Committee on  
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