CHAPTER 12—RADIATION

Due Nov 12 at 1:59pm

Points 10

Questions 5

Time Limit None

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	998 minutes	10 out of 10

(!) Correct answers are hidden.

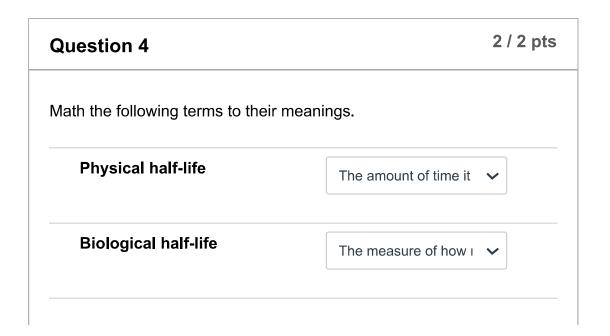
Score for this quiz: **10** out of 10 Submitted Nov 10 at 12:32pm This attempt took 998 minutes.

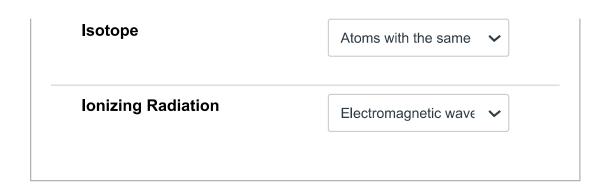
Question 1	2 / 2 pts	
The daily dose limit for germicidal UV radiation at 254 nm is 6.0 mJ/cm2. Suppose a worker is exposed to an (unweighted) irradiance of 0.01 mW/cm2 at this wavelength. How long in minutes can the worker be exposed without exceeding the dose limit?		
O 6		
2.78E-5		
0.00167		
10		
O 600		

Question 2	2 / 2 pts

If you start with 300 μ Ci of iodine-131, how much, in μ Ci, will you have after 25 days? (I-131 has a half-life of 8.04 days.)		
34.8		
24.5		
7.59		
O 240		

Question 3	2 / 2 pts
Why is ionization biologically significant?	
It can confer superpowers like it did for Spider Man.	
It can lead to cellular or molecular damage.	
It can reduce static charges on surfaces.	
It can transmute metals.	





Question 5	2 / 2 pts
What is the minimum photon energy level of ionizing radiati	on?
O 112 Joules	
○ 233 BTU	
● 12.4 eV	
O 87 ergs/g	
○ 8.2 eV	

Quiz Score: 10 out of 10