BIOC 141 · ASHBURN MODULE 14 WORKSHEET

Question 1: Complete the table below regarding the four types of radiation.

	Mass	Charge
alpha particle		
beta particle		
positron		
gamma rays		

Question 2: Which objects may be used to block radiation from alpha particles, beta particles, and gamma particles?

alpha particles:

beta particles:

gamma rays:

Question 3: List three ways to reduce exposure to radiation.

Question 4: Technetium-99 is the most commonly used radioisotope used in medicine with approximately 40 million procedures performed worldwide each year. It has a half life of 6.00 hours. If a patient is given 2.08 grams of Tc-99, how many grams of the sample is remaining after 24 hours?

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