

Name: _____

Date: _____

[4 pt] 1. What is meant by the term "ionizing radiation". Write an example illustrating what occurs.

[8 pt] 2. List and briefly describe at least 4 factors that the biological effect of radiation depend on.

[3 pt] 3. List in order (least to greatest) the penetrating power of: alpha, beta, gamma, and x-rays.)

[4 pt] 4. Why is an α emitter more hazardous to an organism internally than externally, whereas a γ emitter is equally hazardous internally and externally? Explain.

[6 pt] 5. List and briefly describe the 3 main "types" of units used to describe radiation, and what is the most common unit(s) for each measurement.

Type of Radiation	Name	Symbol	Units/Conversion Factor
Decay Rate			
Energy Absorbed			
Tissue Damage			

