

LIFE IN THE UNIVERSE — AST 07

HW #11

Complete sentences, no txt spelling in Ur wrk! :)

Include your name and 2-digit ID#.

Due at the beginning of the next class.

Machine-printed only; no email, no handwritten.

P393

Q1: What is the rare Earth hypothesis?

Q2: What service might Jupiter have provided our solar system, which allowed life to develop and diversify on the Earth?

Q3: How might plate tectonics contribute to climate stability?

Q4: In the context of the rare Earth hypothesis, how are supernovae related to setting an inner boundary to a galactic habitable zone?

Q5: As of this semester, which exoplanet is currently the most Earthlike, in terms of size and location in a habitable zone? Justify your answer with information on why you selected this specific planet.

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