

Name: \_\_\_\_\_

ASTR500: Mock Cumulative Exam Question #5

*Discovery of Eight New Extremely Metal Poor Galaxies in the SDSS (Kniazev et al. 2003)*

10<sup>th</sup> March, 2009 – Randy Carlson

The authors talk about the galactic star formation rate, which can be multiplied by the initial mass function (IMF) to achieve the stellar birthrate function. Assuming a Salpeter IMF over the range 0.25 to 50 solar masses, find the mean mass of the stars in one of the newly discovered extremely metal-poor galaxies.