

Name ANSWER KEY

ASTR 1010 - Exam 3 - Spring 2009 - Prof. Magnani

April 1, 2009

There are 19 questions on this exam and you must attempt them all (the written questions are 10 points each for a total of 40 pts., and the multiple choice are worth 4 pts. each for a total of 60 pts.). A formula and constants sheet is included at the end of this exam. Please write right on the exam pages and use the back of the sheets if you need more room. You may use a calculator. Good luck!

1. (10 points) Suppose you had to describe Einstein's theory of General Relativity to one of your peers (try this on your next date!). What would you say? Confine your comments only to 2-3 paragraphs.

Matter bends spacetime, and curved spacetime tells matter how to move (i.e., on a geodesic).