Basic Examination: Measure and Integration | August 2016

This test is **closed book**: no notes or other aids are permitted.

You have 3 hours. The exam has a total of 5 questions and 100 points (20 each).

You may use without proof *standard* results from the syllabus which are independent of the question asked, unless explicitly instructed otherwise. You must, however, **clearly** state the result you are using.

Below, if not stated explicitly, (X;F;) is a measure space, $L_p=L_p(X;F;$) is the standard L_p space $(p\ 2\ [1;$