

Feedback for EEE305 Session: 2015-2016

Feedback: Please write simple statements about how well students addressed the exam paper in general and each individual question in particular including common problems/mistakes and areas of concern in the boxes provided below. Increase row height if necessary.

General Comments:

Overall, students' performance is OK. The main difficulty comes from the explanation of difference between the concentrated winding and distributed winding and their pros and cons.

Question 1:

It is strange that students performed badly at this question. However, similar question did appear in the 2011-12 exam paper, although there is some difference. Most students failed to derive the airgap flux density, which is useful for the following sections such as calculating the flux density in stator tooth and stator yoke. However, as long as students can give the expressions of stator tooth and yoke flux density, marks will be awarded.

Question 2:

The most difficult part of this question is the section A2.C, students failed to derive the expression of minimum magnet length to withstand the demagnetization. But most students have succeeded to answer the sections d and e.

Question 3:

This is supposed to be the easiest question of this year's exam. The main difficulty comes from the understanding of single layer and double layer, concentrated winding and distributed windings. So some students are confused with the questions b and c.

Question 4:

This one is similar to the example given in lecture notes, so students performed generally well. The question A4.c is the most difficult part, most students failed to tell the pros and cons of open-slot and semi-closed students, however, they have been listed in the lecture notes.

Question 5:

Question 6:

Question 7:

Question 8: