Examination Feedback for EEE118 – Electronic Devices in Circuits
Spring Semester 2013-14

Feedback for EEE118 Session: 2013-2014

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:

The circuits' parts of the exam were generally well attempted by many students. There were a significant number of students who wrote next to nothing on the exam paper and scored commensurately.

Question 1:

Some problems here occurred because candidates got in "a bit of a pickle" over the diode conduction state part of the question. Other students who managed the conduction state had obviously thought that power supplies would not be asked as they had minimal attempts at an answer on the other hand many students answered all of this question well with quite a few scoring 24/25 or more.

Question 2:

Question 3:

This question was very similar to last year's transistor question. Many students answered well especially on the switching part which is quite formulaic. The amplifier part confused several candidates which is surprising because the question is nearly identical to an example that was demonstrated in the lectures. Several students scored full marks for this question however.

Question 4:

Question 5:

Question 6:

The opamp question is always a favorite for students. This year's was quite similar to the prior years. The first and last parts of this question were carbon copies of problem sheets and past exams – but with different numbers. In part b I put in a circuit that was not explicitly "taught" in the lectures but could be analyzed in the same way as the ones in the lectures – very pleasingly for me, many students handled it without any difficulty showing that they have mastered the analysis skills not just learned some key results by heart. I was also pleased to see a range of valid approaches to the solution of this part of the question. Several students scored full marks for this question.

Question 7:

Question 8: