

Examination Feedback for EEE207 – Semiconductors for Electronics  
Spring Semester 2009-10

**Feedback for EEE207 Session: 2009-2010**

**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:**

Students have done reasonably well and there were no questions that proved too difficult for a reasonable attempt.

**Question 1:**

Most students did reasonably well in this. Only the latter part of (b) proved to be a problem for several students. Solving the quadratic equation seemed to be a problem.

**Question 2:**

This was a fairly straight forward question and most students obtained high marks. A few marks were lost due to not marking clearly the different regions of operation.

**Question 3:**

Part (a) was OK. In part (b), many students simply stated the condition for  $I_d$  to saturate, rather than differentiate  $I_d$  w.r.t.  $V_{ds}$  and equate that to zero, from which the condition for saturation can be determined. Part (c) was straightforward but many students seemed to get confused and lost marks.

**Question 4:**

Only about 25% of students attempted this. Several students did very well as it was quite straightforward, with plenty of help given within the question. Part (c) confused some people who could not work out accurately what 1% of a tenth of the speed of light of light actually was.