Examination Feedback for EEE***(Module Code) – *(Title)
Spring Semester 2010-11

Feedback for EEE*** Session: 2010-2011

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:

Most people did OK in this paper. There were one or two bits that people found tricky, but otherwise was a good attempt by most students.

Question 1:

(a) – most people did well but for sometimes getting the sign wrong.
(b) (i) was easy, as was (iii). However (ii) seemed to get some people confused.
(c) Only a few did this properly. In addition to the worked solution, some people did a ratio of temperatures to get a particular value for *ni*, and that was also acceptable. Anone who stated what was required also got marks.
(d) Virtually no one got this correct. I didn't specify how much below RT – some assumed that I was talking about 0K.

Question 2:

(a) – some got the I-V part wrong (drawing a photoconductor response) but generally easy.
(b) Most got this correct for (i) and (ii) but some seemed to be confused by what was required for (iii)
(c) (i) all got this correct. (ii) most people got quite a long way into this and got marks even if the final number was wrong.
(d) Mostly OK but some seemed to get confused.

Question 3:

(a) – many lost 1 mark for drawing the gate inaccurately.
(b) Very straightforward it appears – most got full marks.
(c) Very few got Vd correct – some gave me the supply voltage on the other side of the resistor. Getting gm also proved difficult for some.
(d) Due to the error in Vd in (c) very few got full marks for this, but provided the working was clear, they only lost 1-2 marks.

Question 4:

(a) – very few did this properly, using the information given. Several used the energy of an electron in a vacuum, so only got a couple of marks.
(b) (i) was straightforward for many people. (ii) however seemed to confuse people – it was very straightforward if you look at the solution.
(c) Very easy – most people got full marks, perhaps losing 1-2 marks for poor explanation of the recombination in indirect Eg.

Question 5:

Question_6:

Question_7:

Question_8: