Examination Feedback for EEE403 – (High speed electronic circuit design)
Autumn Semester 2010-11

Feedback for EEE403 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:

Question 1:

(a) Most students managed to solve this part reasonably well.
(b) Has been answered correctly by most students.
(c) Many students couldn't answer this question. Some didn't write any answer, while others have written equations for reflection coefficients and VSWR with providing the required proof which is given in the lecture notes.
(d) Most students managed to solve this part reasonably well.

Question 2:

(a) Most of the students couldn't answer this correctly as the explained how to use Smith chart in single stub matching instead of explaining how the single stub can provide the required impedance matching.
(b) Many students have managed to answer this part correctly using the Smith Chart. Other students who have solved the question using the mathematical equations made several mistakes due to the complexity of the calculations.
(c) Most students have managed to answer this part correctly.

Question 3:

(a) Most students have managed to answer this part correctly.
(b) Many students failed to answer this question correctly as some of them have listed all the scattering parameters equations with getting to the required point.
(c) Most students have managed to answer this part correctly.
(d) Most students have managed to answer this part correctly.

Question 4:

(a) No student has managed to answer this question which is given in the lecture notes as well as in past years exam papers. The most common mistake is the explanation of the constant gain circles.
(b) Nearly all students, who solved question 4, have answered this part correctly.
(c) This is exactly an example from the lecture notes, yet most of the students didn't solve it correctly. Most of them went wrong in the calculations of the centre and radius for the noise figure circle.

Question 5:

Question 6:

Question 7:

Question 8: