

ENEE 302 Midterm Makeup Spring 2002

Take home; due Th 04/18/02

In an Official Examination Book show your work for partial credit for up to 60 additional points. Your signature guarantees the work is your own - only signed exams will be graded. Open book, open notes, but no consulting of classmates; Good luck

1. makeup [30 points]

Redo problem 1 of the original exam assuming

$$i_D(v_{GS}, v_{DS}) = -\frac{\beta}{1 - \theta v_{GS}} (-v_{GS} + V_{TO})^2 (1 - \lambda v_{DS})$$

3. makeup [30 points]

For the original problem redo parts c) and d) as follows:

c) Find the range of passive R_1 for which the circuit can be biased.d) As a function of those R_1 find the DC power supplied by V_{CC} . What happens for other R_1 ?