

King Fahd University of Petroleum & Minerals
Department of Electrical Engineering

Quiz #1

EE460 Power Electronics

October 2007

Name: _____ ID: _____ Grade: _____

Bridge rectifier has a purely resistive load R . The load is 1 kW. Assume the voltage at the secondary transformer $V_s = 120$ V (rms). Determine:

(a) the value of the resistance R , (b) the rms current diode, (c) the average diode current, (d) PIV of the diode D_4 , and (e) TUF, (f) draw the voltage waveform across D_2 .

