

KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS
Electrical Engineering Department
EE-416 Analog Filter Design
Instructor: Dr. Hussain Alzaher
Quiz.#1

Name:

I.D.#

Serial #:

Design a Butterworth lowpass filter with a passband in $0 \leq f \leq 100 \text{ kHz}$ and $\alpha_{\text{max}} = 0.5$ dB; the stopband is in $f \geq 200 \text{ kHz}$ with a minimum attenuation of $\alpha_{\text{min}} = 25 \text{ dB}$.