

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 #:

(a) Determine (estimate) the degrees necessary for Cauer (elliptic) filter to meet the following requirements.

$\alpha_{\max} [dB]$	$\alpha_{\min} [dB]$	$\omega_p [rad / s]$	$\omega_s [rad / s]$
1.2	42	4200	5880

(b) Determine the transfer function of Cauer (elliptic) lowpass filters that meets the above specifications