

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

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Name:

I.D.#

Serial #:  
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Design a Chebyshev lowpass filter with a passband in  $0 \leq f \leq 65$  kHz and  $\alpha_{\max} = 0.5$  dB; the stopband is in  $f \geq 135$  kHz with a minimum attenuation of  $\alpha_{\min} = 30$  dB.