# Exam2 Topics

* LaPlace and Z-Transforms
	+ Focus on Z-Transforms (Digital)
	+ Using the transform sum to find the Z-Transform
	+ Applying a filter in the z-domain to find the Z-Transform of the output
	+ Using partial fractions to find the inverse Z-Transform (aka the time sample sequence)
* Discrete Convolution – be prepared to actually compute the convolution of two pulse sequences
	+ Flip, shift and add, repeat till done
	+ Express one of the sequences as a sum of shifted pulses, find the shifted output sequence to each one, and add up the results ad each sample time
* Biomedical signals and signal Processing (The multiple choice section)
	+ Signals
		- ECG
		- EEG
		- Ultrasonic imaging
		- Tomography (CAT scans)
	+ Noise and noise reduction