

SSY081 Matlab project

Group ID: ?

Group members: ?

Question 1.

- a) Procedure you have followed to create the trains of action potentials corresponding to each unit.

?

- b) Link to the theories discussed in class.

?

- c) Number of samples

?

Reason

?

- d) Figure 1: action potential train nb [insert train number] (0-20 s)

Figure

Figure 2: action potential train nb [insert train number] (10-10.5 s)

Figure

- e) Time axis

?

- f) Figure 3: EMG (10-10.5 s)

Figure

Question 2.

- a) Procedure you have followed to filter the binary file.

?

- b) Link to the theories discussed in class.

?

- c) Figure 4: filtered binary vectors (0-20 s)

Figure

- d) Figure 5: filtered binary vector 4.

Figure

Filter characteristics (e.g. low-pass, high-pass)

?

- e) Figure 6: filtered binary vector 7.

Figure

Fastest discharging unit.

- f) Reason

?

Question 3.

- a) Figure 7: signal with and without interference

Figure

- b) Comment Figure 7

?

- c) Figure 8: DFT of the signal with and without interference

Figure

- d) Comment Figure 8

?