

(this week), how would you proceed if you wanted to allow a patient to control a robotic arm after they lost their own (following an accident for instance). Which signal would you acquire and how would you do it? How would you process and communicate it?

5) i) Describe the indirect and direct pathways in the Basal Ganglia and how they differ. ii) Which structures are "input" and "output" structures? iii) State which neurotransmitter is used by the principal neurons in the BG brain structures.

6) Explain how the perturbation of the basal ganglia circuits result in hypokinetic or hyperkinetic activity in the examples of Parkinson's and Huntington's diseases.