

Quiz 1

Understanding the Brain as a Complex system

September 5, 2023

1. (O/X) The cerebrum, diencephalon (thalamus, hypothalamus), and limbic system (amygdala, hippocampus) are classified as the forebrain.
2. (O/X) The midbrain, pons, medulla, and spinal cord belong to the brainstem.
3. List all four lobes of the cerebral cortex.
4. Explain the activated region (pathway) of cerebrum when saying the sentence you read.
5. Assume that there is a patient damaged in hippocampus. The patient can not remember new things except procedural memory after the accident, however, he could remember the things before the accident. Explain (a) why he can not remember new memory, (b) why he can remember previous memory, (c) how he can learn cycling even after the accident.
6. Expecting what happens if basal ganglia is damaged. We called this disease 'Parkinsonism'. Also, discuss about how can we cure this disease. Since dopamine can not cross the blood brain barrier (BBB), we can not use dopamine directly.