Assignment 1

The due date for submitting this assignment has passed.

Due on 2020-02-12, 23:59 IST.

1) "Brain is to mind as heart is to body" stated by _____, and this is really ____. Acceptable Answers: ___.

2) _____ consists of recording the electrical activity produced by the brain using electrodes placed on the scalp. The first time this was recorded by ___.

3) Which side was wider than the control in Golgi’s brain?
   - Oral side
   - Inferior Parietal lobe
   - Supramarginal lobe
   - Temporal lobe
   - Occipital lobe

4) Neocortical connections, large brain area projects into tiny brain area ______ connection where small brain area projects into large brain area ______ connection.
   - Divergent; Convergent
   - Convergent; Divergent
   - Reciprocal; Reciprocal
   - None of the above

5) Feedback loop is passed through the section from _____.
   - Corticostriate fibers → Neostriatum → Basal ganglia internal → Basal ganglia external → Thalamus → Corticocortical fibers
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   - Corticostriate fibers → Neostriatum → Basal ganglia internal → Basal ganglia external → Thalamus → Corticocortical fibers
   - None of the above

6) The tendency to minimize the total wire length
   - Reduce the total conduction delay by myelinating axon.
   - The connection between three neurons gets stronger if they are simultaneously active.
   - Saving the wire (dendrites and axons) at the expense of axons

7) What is "laminar disconnection deficiency" of brain?
   - The tendency to minimize the total wire length
   - Reduce the total conduction delay by myelinating axon.
   - The connection between three neurons gets stronger if they are simultaneously active.
   - Saving the wire (dendrites and axons) at the expense of axons

8) Four components of neuron signaling are preserved in
   - Action potential generation in cell body → Signal propagation along dendrites → Signal propagation along axon → Signaling across synapses
   - Signal propagation along dendrites → Action potential generation in cell body → Signal propagation along axon → Signaling across synapses
   - None of the above

9) The neuron evoked slow response is called
   - Spike
   - FGP
   - Action Potential
   - None of the above

10) Multiple sclerosis disease is caused of
    - Demineralization of the cells
    - Selective death of dopaminergic cells in substantia nigra
    - Degeneration of the glial cells of central nervous system
    - All of the above