

Q1:

CFS helps protect the system by acting like a cushion against sudden impact or injury to the brain or the spinal cord.

2° Medullated Neurons

=> Medullated ^{neurons} ~~neurons~~

is a neuron with
a medullary sheath.

=> It is found in the
white matter of
brain & spinal
cord.

=> white in colour.

Non-Medullated Neurons

=> Non-medullated neurons
is a neuron without a
medullary sheath.

=> It is found in gray matter
of the brain and in
autonomous nervous
system.

=> Grey in colour.

3°

* ~~test~~ while a ballet dancer performs dancing, the cerebrum of the brain gives instructions to the feet of the dancer along with her hands to coordinate properly. At the same time the cerebellum is responsible for maintaining a proper posture and balance.

* When a pencil falls, the cerebrum quickly senses the falling or pencil sound and sends instructions to the hand and asks it to pick up the pencil. The cerebellum helps in maintaining the posture of body by bending without falling and picking up pencil at the same time.

4: Synapse is a gap between two ~~nerve~~ connecting neurons where electrical impulse can be transmitted ^{to} between the 2 neurons.

* Synapses are formed ~~in~~ between the nerve fibres so that the electrical impulses can travel between the nerve fibres.

* Synapses usually act as one-way valves. Thus synapses ensure that nerve impulses travel in only one particular direction through a particular set of neurons.