



# Assignment

M.Sc. Zoology  
Semester-II

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Title of Assignment:

Neural Control of  
muscle tone of Posture II

Student Name:

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Roll Number:

01

Detail explanation regarding.

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*[Signature]*  
14/8/19

# SUPRA-SPINAL

Control Of

MUSCLE TONE.....

→ The efferent fibres to the muscle spindle,  $\alpha$ -motoneurons receive input from higher centres via:-

- Facilitatory fibres
- Inhibitory fibres.

\* **EXCITATORY**

# SUPRASPINAL

## CONTROL:-

→ Medial / ventral Reticulospinal Spinal Pathway.

→ Vestibulospinal Pathway.

## \* INHIBITORY

## SUPRASPINAL

## CONTROL:-

→ Corticospinal pathway

→ Dorsal lateral reticulospinal pathway.

→ Corticoreticular pathway.

# \* DISORDER OF MUSCLE TONES :-

→ Abnormalities of tone :-

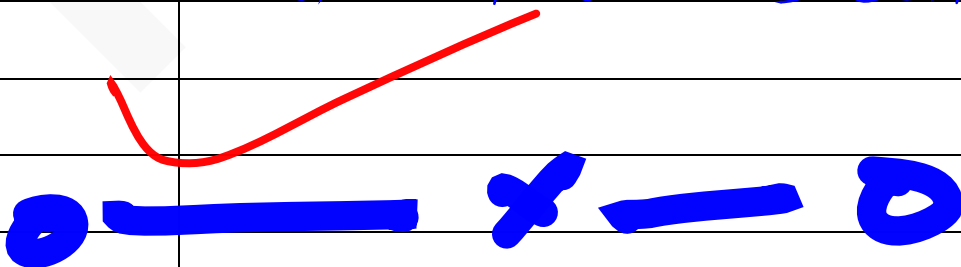
• Hypertonia

→ Pyramidal Hypertonia  
→ Extrapyramidal Hypertonia

- Hypotonia
- Clonus

→ Clonus is the phenomenon of involuntary rhythmic contraction in response to sudden sustain stretch.

→ A sudden stretch activates muscles spindles, resulting in the stretch reflex.



THANK

YOU

